Kubota

U.S.A. : **KUBOTA TRACTOR CORPORATION**
1000 Kubota Drive, Grapevine, TX 76051
Telephone : 888-4KUBOTA

Canada : **KUBOTA CANADA LTD.**
5900 14th Avenue, Markham, Ontario, L3S 4K4, Canada
Telephone : (905)294-7477

France : **KUBOTA EUROPE S.A.S**
19-25, Rue Jules Vercruysse, Z.I. BP88, 95101 Argenteuil Cedex, France
Telephone : (33)1-3426-3434

Italy : **KUBOTA EUROPE S.A.S Italy Branch**
Via Grandi, 29 20068 Peschiera Borrome (MI) Italy
Telephone : (39)02-51650377

Germany : **KUBOTA (DEUTSCHLAND) GmbH**
Senefelder Str. 3-5 63110 Rodgau /Nieder-Roden, Germany
Telephone : (49)6106-873-0

U.K. : **KUBOTA (U.K.) LTD.**
Dormer Road, Thame, Oxfordshire, OX9 3UN, U.K.
Telephone : (44)1844-214500

Spain : **KUBOTA ESPAÑA S.A.**
Avenida Recomba No.5, Polígno Industrial la Laguna, Leganes, 28914 (Madrid) Spain
Telephone : (34)91-508-6442

Australia : **KUBOTA AUSTRALIA PTY LTD.**
25-29 Permas Way, Truganina, VIC 3029, Australia
Telephone : (61)-3-9394-4400

Malaysia : **KUBOTA MALAYSIA SDN. BHD.**
No.3 Jalan Sepadu 25/123 Taman Perindustrian Axis,
Seksyen 25, 40400 Shah Alam, Selangor Darul Ehsan Malaysia
Telephone : (60)3-736-1388

Philippines : **KUBOTA PHILIPPINES, INC.**
232 Quirino Highway, Baesa, Quezon City 1106, Philippines
Telephone : (63)2-422-3500

Taiwan : **SHIN TAIWAN AGRICULTURAL MACHINERY CO., LTD.**
16, Fengping 2nd Rd, Taliao Shiang Kaohsiung 83107, Taiwan R.O.C.
Telephone : (886)7-702-2333

Indonesia : **PT KUBOTA MACHINERY INDONESIA**
Tower A at EightyEight@Kasablanka Lantai 16
Jalan Raya Casablanka Kav. 88, Jakarta 12870 Indonesia
Telephone : (62)-21-29568-720

Thailand : **SIAM KUBOTA CORPORATION CO., LTD.**
101/19-24 Moo 20, Navanakorn Industrial Estate, Tambon Khlongnueng, Amphur Khlongluang,
Pathumthani 12120, THAILAND
Telephone : (66)2-909-0300

Korea : **KUBOTA KOREA CO., LTD.**
41-27, Jayumuyeok-gil, Baeksan-myeon, Gimje-si, Jeollabuk-do, Korea
Telephone : (82)-63-544-5822

India : **KUBOTA AGRICULTURAL MACHINERY INDIA PVT. LTD.**
No.15, Medavakkam Road, Sholinganallur, Chennai-600119, T.N., India
Telephone : (91)44-6104-1500

Vietnam : **KUBOTA VIETNAM CO., LTD.**
Lot B-3A2-CN, My Phuoc 3 Industrial Park, Thoi Hoa Ward, Ben Cat Town, Binh Duong Province, Vietnam
Telephone : (84)-274-3577-507

KUBOTA Corporation

AY. C. 9-9. -. K

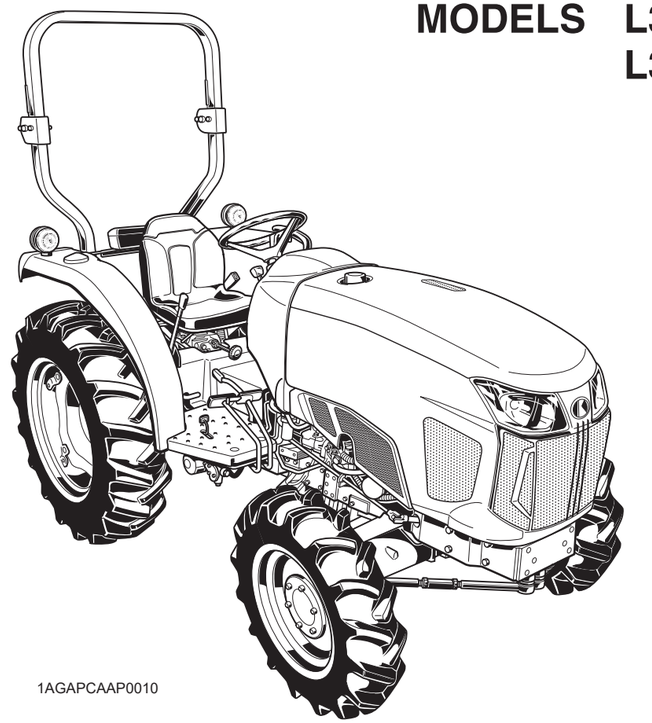
English (U.S.A.)
Code No. TC620-1973-8

L3301.L3901

OPERATOR'S MANUAL

KUBOTA TRACTOR

MODELS L3301
L3901



1AGAPCAAP0010

PREVIEW - YOUFIXTHIS.COM

READ AND SAVE THIS MANUAL

PRINTED IN U.S.A.

© KUBOTA Corporation 2016

Kubota

CONTENTS

SAFE OPERATION 7

SERVICING OF THE TRACTOR 19

DEALER SERVICE 19
1. Warranty of the tractor 19
2. Scrapping the tractor and its procedure 20

SPECIFICATIONS 21

SPECIFICATION TABLE 21
TRAVELING SPEEDS TABLE 25

IMPLEMENT LIMITATIONS 26

IMPLEMENT LIMITATION TABLES 26

INSTRUMENT PANEL AND CONTROLS 30

INSTRUMENT PANEL, SWITCHES, AND HAND CONTROLS 30
1. Head light switch 32
2. Turn signal light switch 32
3. Hazard light switch 32
4. Key switch 33
5. Easy Checker™ lamps 33

FOOT CONTROLS AND HAND CONTROLS 34
1. Foot controls and hand controls [Manual transmission type] 34
2. Foot controls and hand controls [HST type] 35
3. Hand throttle lever 36
4. Brake pedals (right and left) 36
4.1 How to use the parking brake 36
5. Front wheel drive lever 37
6. Seat belt 38
7. Operator's seat 38
8. Clutch pedal [L3301 Manual transmission type and HST type] 39
9. Clutch pedal with dual clutch [L3901 Manual transmission type] 39
10. Main gear shift lever and range gear shift lever [Manual transmission type only] 39
11. Foot throttle [Manual transmission type only] 40
12. Synchro-shuttle shift lever [Manual transmission type only] 40
13. Speed control pedal [HST type only] 40
14. Range gear shift lever (L-M-H) [HST type only] 41
15. Cruise control lever (if equipped) [HST type only] 41
15.1 How to use the cruise control lever (if equipped) [HST type only] 42

TRACTOR LIGHTS 42

PRE-OPERATION CHECK 43

DAILY CHECK ITEMS BEFORE OPERATION OF THE TRACTOR 43

OPERATING THE ENGINE 44

PRECAUTIONS FOR OPERATING THE ENGINE 44
EXHAUST AFTERTREATMENT DEVICES 44
1. Diesel particulate filter (DPF) muffler 44
2. Handling points for DPF regeneration 44
3. DPF regeneration process 45
3.1 Operating the engine to regenerate the DPF for auto regeneration mode 46
3.1.1 PM warning level and required procedures for auto regeneration mode 46
3.2 Operating the engine to regenerate the DPF for regeneration inhibit mode 48
3.2.1 PM warning level and required procedures for auto regeneration mode 48
3.3 Operating the engine to regenerate the DPF for parked regeneration 49
4. Tips on diesel particulate filter (DPF) regeneration 50

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

6. Check all fluid levels: engine oil, transmission/ hydraulic oil, engine coolant, and any attached implements.
7. Start the engine. Check all gauges.
8. If all gauges are functioning properly and reading normal, follow the following procedure.
   a. Move the tractor outside.
   b. Once outside, park the tractor.
   c. Let the engine idle for at least 5 minutes.
9. Shut the engine off. Walk around tractor and make a visual inspection looking for evidence of oil or water leaks.
10. With the engine fully warmed up, release the parking brake and test the brakes for proper adjustment as you move forward. Adjust the brakes if it is necessary for the brakes to be adjusted.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

PREVIEW

FOREWORD

You are now the proud owner of a KUBOTA Tractor. This tractor is a product of KUBOTA quality engineering and manufacturing. It is made of fine materials and under a rigid quality control system. It will give you long, satisfactory service. To obtain the best use of your tractor, please read this manual carefully. It will help you become familiar with the operation of the tractor and contains many helpful hints about tractor maintenance. It is KUBOTA's policy to utilize as quickly as possible every advance in our research. The immediate use of new techniques in the manufacture of products may cause some small parts of this manual to be outdated. KUBOTA distributors and dealers will have the most up-to-date information. Please do not hesitate to consult with them.

Download full manual at youfixthis.com

SAFETY FIRST

This symbol, the industry's "Safety Alert Symbol", is used throughout this manual and on labels on the machine itself to warn of the possibility of personal injury. Read these instructions carefully. It is essential that you read the instructions and safety regulations before you attempt to assemble or use this unit.

DANGER :	Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.
WARNING :	Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
CAUTION :	Indicates a potentially hazardous situation which, if not avoided, could result in minor or moderate injury.
IMPORTANT :	Indicates that equipment or property damage could result if instructions are not followed.
NOTE :	Gives helpful information.

SPECIFICATIONS

SPECIFICATION TABLE

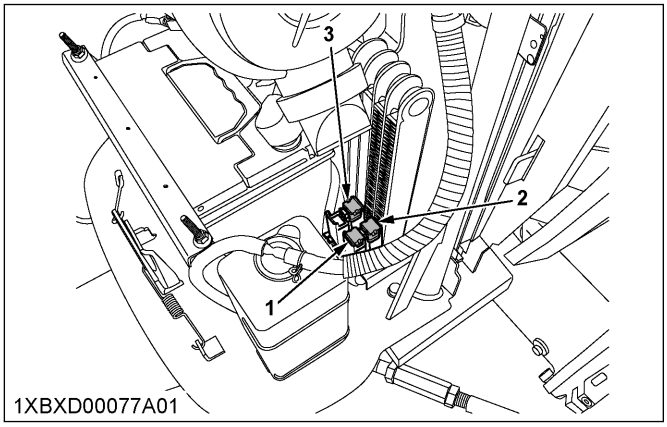
Model				L3301		
				Manual transmission		HST
				2WD	4WD	4WD
PTO power (factory observed)*1			kW (HP)	20.7 (27.7)		19.5 (26.2)
Engine	Model			D1803-CR-E4		
	Type			Direct injection, Vertical, Water-Cooled 4 cycle diesel		
	Number of cylinders			3		
	Bore and stroke		mm (in.)	87 x 102.4 (3.4 x 4.0)		
	Total displacement		L (cu.in.)	1.826 (111.4)		
	Engine gross power*1		kW (HP)	24.6 (33.0)		
	Engine net power*1		kW (HP)	23.4 (31.4)		
	Rated revolution		rps (rpm)	45.0 (2700)		
	Low idling revolution		rps (rpm)	15.0 (900)		
	Maximum torque		N·m (ft·lbs)	101.7 (75.0)		
	Battery capacity			**75D23R** 12V. RC : 110 min, CCA : 580 A		
Capacities	Fuel tank		L (U.S.gals.)	42.0 (11.0)		
	Engine crankcase (with filter)		L (U.S.qts.)	6.7 (7.1)		
	Engine coolant		L (U.S.qts.)	6.0 (6.3)		
	Transmission case		L (U.S.gals.)	28.0 (7.4)	28.5 (7.5)	23.5 (6.2)
Dimensions	Overall length (without 3P)		mm (in.)	2810 (110.6)	2740 (107.9)	
	Overall width (min. tread)		mm (in.)	1400 (55.1)		
	Overall height (with ROPS)		mm (in.)	2330 (91.7)		
	Overall height (Top of steering wheel)		mm (in.)	1475 (58.1)		
	Wheel base		mm (in.)	1610 (63.3)		
	Min. ground clearance		mm (in.)	345 (13.6)	340 (13.4)	
	Tread	Front	mm (in.)	1050 (41.3)	1095 (43.1)	
		Rear	mm (in.)	1115 (43.8), 1195 (47.1), 1290 (50.8)		

(Continued)

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

1. If any of the slow-blow fuses has blown out, be sure to pinpoint the cause.
   Never use any substitute, use only a KUBOTA genuine part.



No.	Capacity (A)	Protected circuit
1	40	Load
2	50	Battery
3	40	Heater (Oil separator) (if equipped)

5. Replacing the light bulb

1. Replacing the light bulb of the light in the following table if necessary.

Light	Capacity
Head light	25 W / 25 W
Tail light	5 W
Turn signal / hazard light (rear)	21 W
Turn signal / hazard light (front)	23 W

6. Replacing head lamp

⚠ WARNING

To avoid personal injury:

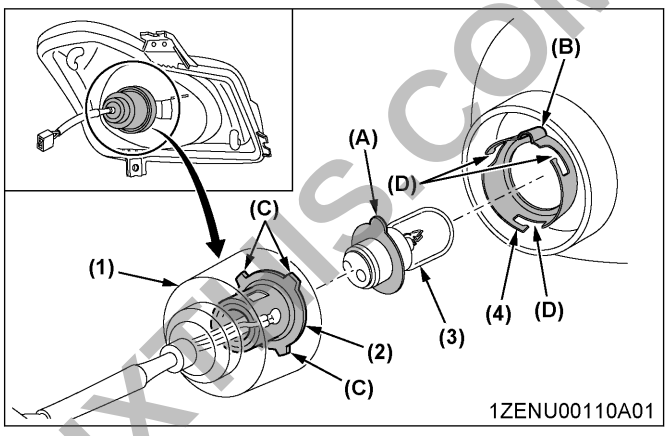
- **Be careful not to drop the bulb, hit anything against the head lamp, apply the excess force, or get the head lamp scratched. If the head lamp is broken, glass may cause injury. Pay more attention to halogen lamps in particular, which include high pressure inside.**
- **Before replacing the head lamp, be sure to turn off the light and wait until the bulb cools down. Otherwise, you may get burned.**

Removing the bulb

1. Remove the rubber boot.
2. Turn the socket counterclockwise while pressing and remove it.
3. Remove the bulb.

Attaching the bulb

1. Align (A) of the bulb with (B) of the lamp case and attach the bulb.
2. Align (C) of the socket with (D) of the lamp case and attach the socket.
3. Attach the rubber boot.



(1) Rubber boot
(2) Socket
(3) Bulb
(4) Lamp case
(A) Align to (B)
(C) Align to (D)

IMPORTANT :

- **Be sure to use a new bulb of the specified wattage.**
- **Never touch the bulb surface (glass) with bare hands. Fingerprints, for example, may break the bulb.**

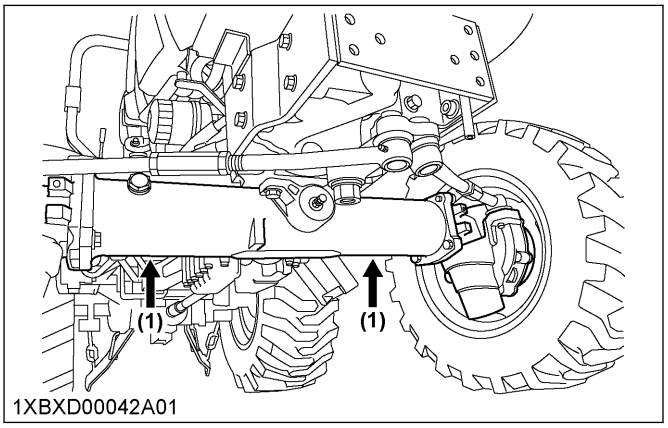
7. Replacing the radiator hose (water pipes) if required

Replace the radiator hose (water pipes) if any deterioration such as crack, hardening, scar, or deformation, or damage occurred. Also, replace the radiator hose (water pipes) every 4 years regardless of the condition.

(See Checking the radiator hose and clamp on page 120.)

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

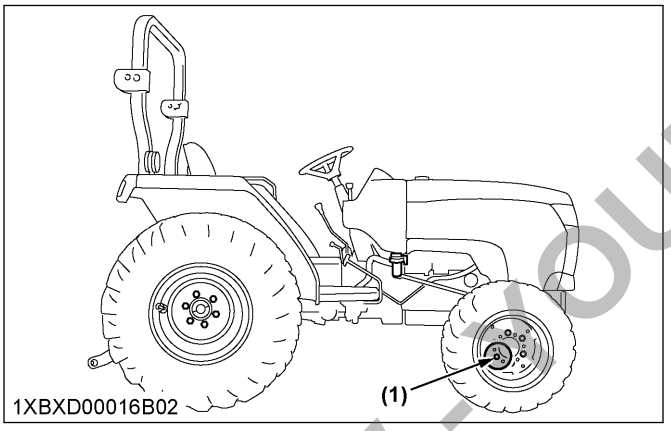


(1) Jack points

You can not adjust width of the front tread.

IMPORTANT :

- **Do not turn the front discs to obtain wider tread.**
- **When re-fitting or adjusting a wheel, tighten the bolts to the following torques.**



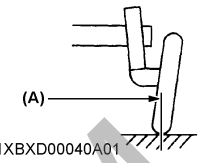
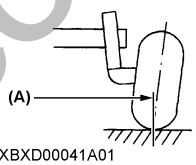
(1) Bolt

Bolt (1)	Tightening torque	137 N·m (14 kgf·m) [100 ft·lbs]

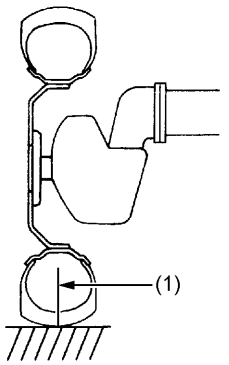
Then recheck after driving the tractor as follows, and thereafter according to SERVICE INTERVALS on page 87.

Driving tractor	200 m (200 yards) and 10 times of shuttle movement by 5 m (5 yards)

[2WD Front wheel]

Tire	Tread
5-15 Farm	 1XBXD00040A01 *(A) 1050 mm (41.3 in.)*
23 x 8.5-12 Turf	 1XBXD00041A01 *(A) 1175 mm (46.3 in.)*

[4WD Front wheel]



(1) Tread

Tire	Tread
7.2-16 Farm	1095 mm (43.1 in.)
25 x 8.5-14 Turf	1105 mm (43.5 in.)
27 x 8.5-15 IND, Hybrid	1115 mm (43.9 in.)

IND
For industrial

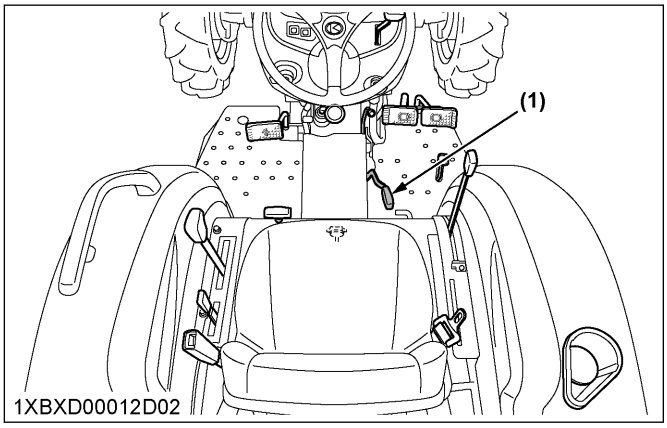
2. Rear wheels

You can adjust the width of rear tread with the standard equipped tires.
(See Adjusting the rear wheels on page 84.)

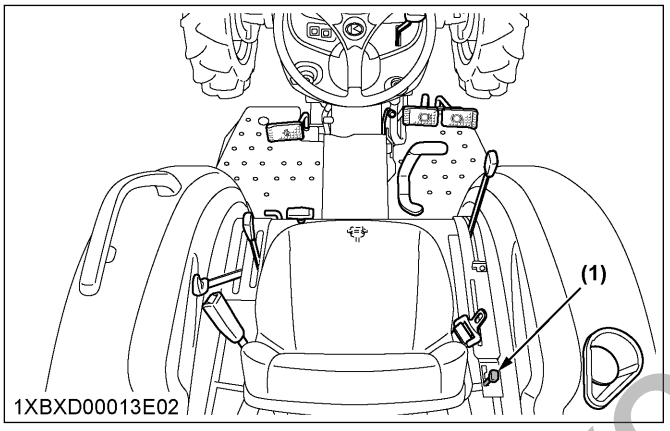
PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

[Manual transmission type]



[HST type]



(1) PTO gear shift lever

1. Sit on the operator's seat.
2. Start the engine.
3. Engage the PTO-gear-shift-lever.
4. Stand up.
   Do not get off the machine.
5. Make sure that the engine shuts off after approximately 1 second.
6. If the engine does not stop, consult your local KUBOTA Dealer for servicing the operator's seat.

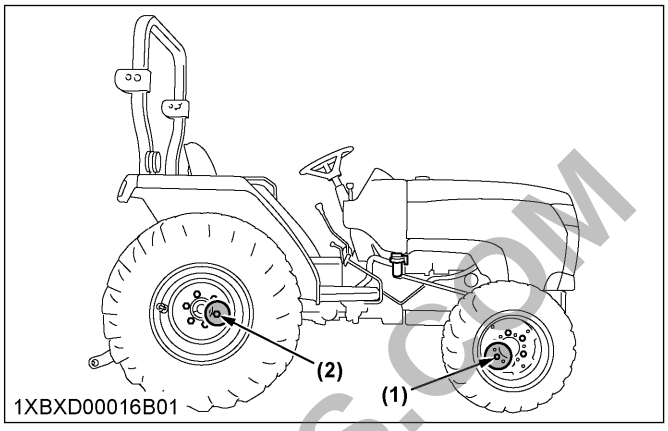
6. Checking the wheel bolt torque

WARNING

To avoid personal injury or death:

- **Never operate the tractor with a loose rim, wheel, or axle.**
- **Any time that the bolts and nuts are loosened, retighten them to the specified torque.**
- **Check all bolts and nuts frequently and keep them tight.**

1. Check the wheel bolts and nuts regularly especially when they are new.
2. If the bolts and nuts of the wheels are loose, tighten them as follows.



(1) Bolt (front wheel) (2) Bolt (rear wheel)

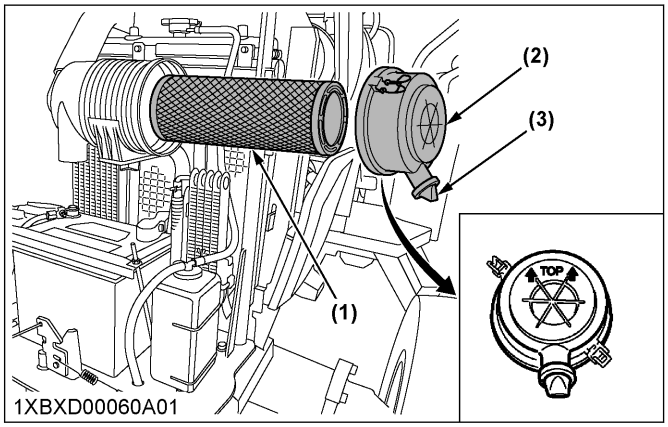
Bolt (front wheel) (1)	Tightening torque	137.0 N·m (14 kgf·m) [100 ft·lbs]
Bolt (rear wheel) (2)		215.0 N·m (22 kgf·m) [160 ft·lbs]

SERVICE EVERY 100 HOURS

1. Cleaning the air cleaner element [Single element type]

IMPORTANT :

- **The air cleaner uses a dry element. Never apply oil.**
- **Do not run the engine with filter element removed.**



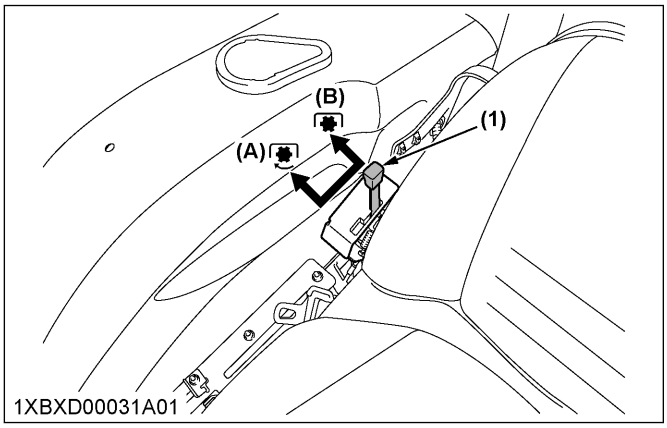
(1) Elements (3) Evacuator valve
(2) Cover

1. Remove the element.
2. Clean the element.
3. When dry dust adheres to the element, blow compressed air from the inside, turning the element. Pressure of compressed air must be under the following value.

PREVIEW - YOUFIXTHIS.COM

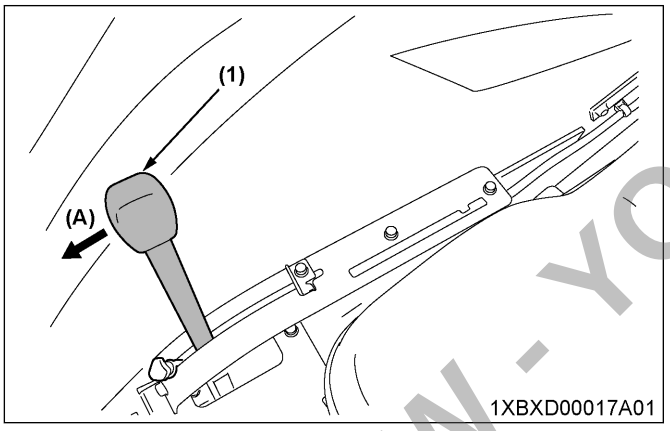
Download full manual at youfixthis.com

5. Place the PTO-gear-shift-lever in the *"OFF"* position.



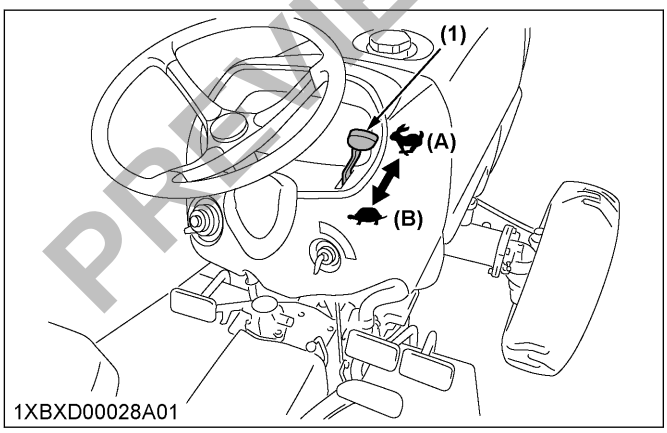
(1) PTO gear shift lever
(A) On
(B) Off

6. Place the position-control-lever in the *"FLOAT"* position.
   The *"FLOAT"* position is the lowest position of position-control-lever.



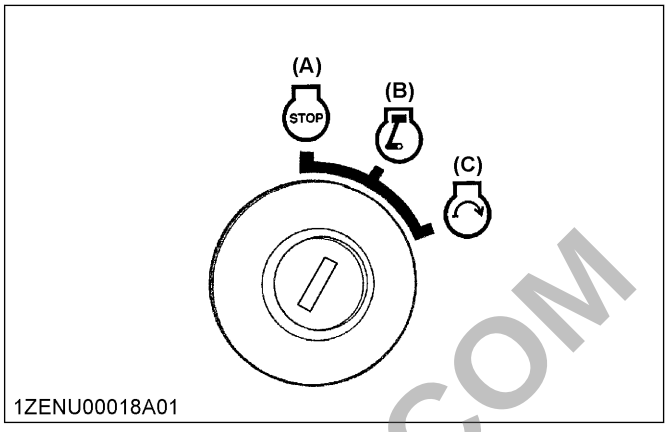
(1) Position control lever
(A) Down

7. Set the hand-throttle-lever to about 1/2 way.



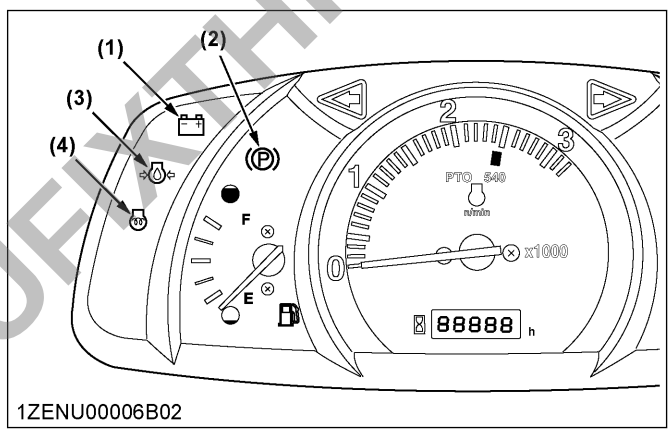
(1) Hand throttle lever
(A) Increase
(B) Decrease

8. Insert the starter key into the key switch and turn it *"ON"*.



(A) Off
(B) On
(C) Start

9. Check the Easy Checker™ lamps.
(See Easy Checker™ lamps on page 33)



(1) Electrical charge indicator
(2) Parking brake indicator
(3) Engine oil pressure warning indicator
(4) Glow plug indicator

NOTE :

- **Some of the Easy Checker™ lamps may light up depending on the positions of the levers and switches.**
- **Turn on the key switch, and some of the indicators on the instrument panel stay on about 1 second.**

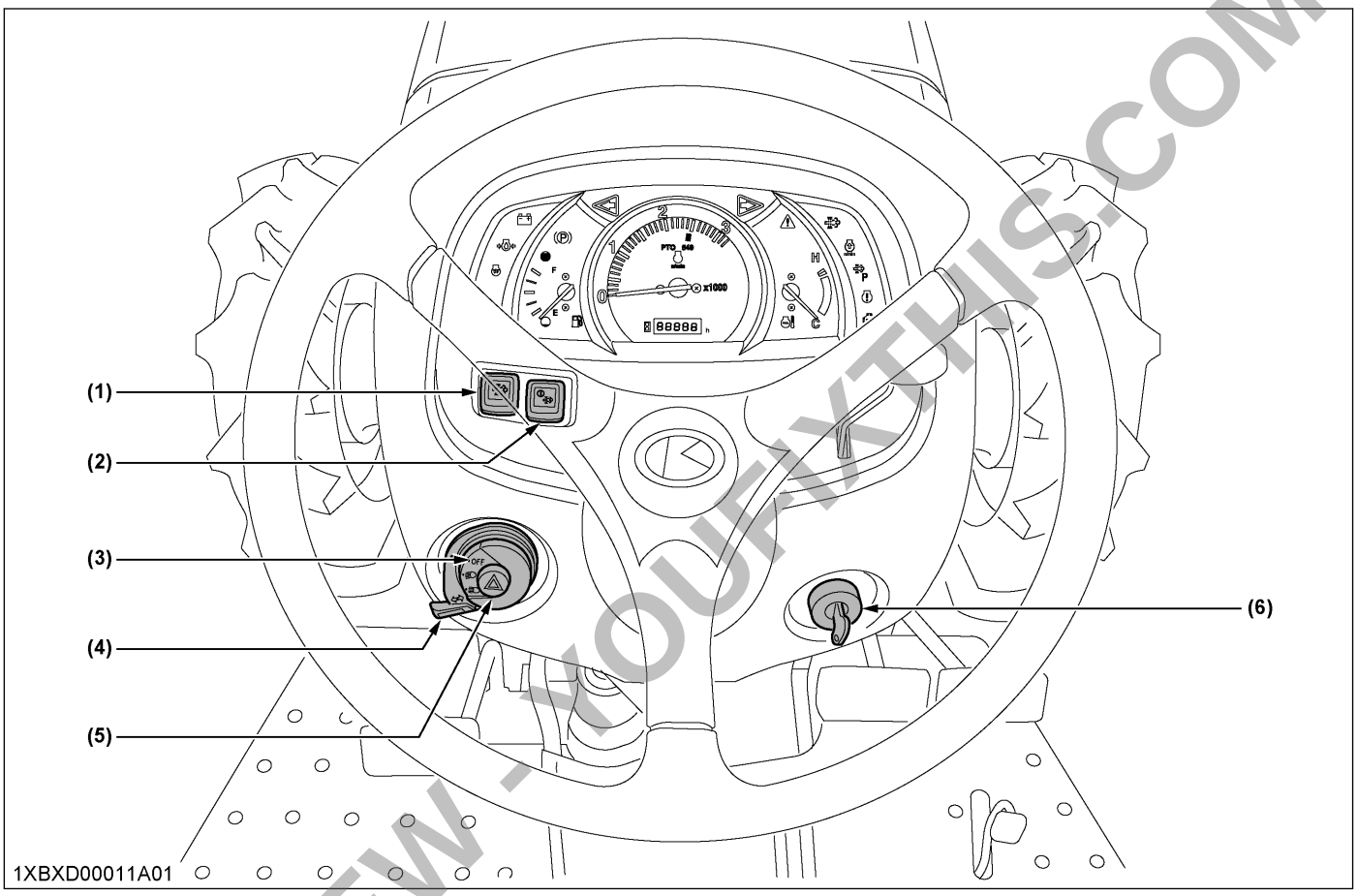
PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

INSTRUMENT PANEL AND CONTROLS

INSTRUMENT PANEL, SWITCHES, AND HAND CONTROLS

Switches and hand controls



(1) DPF INHIBIT switch 45
(2) Parked regeneration switch 45
(3) Head light switch 32
(4) Turn signal light switch 32
(5) Hazard light switch 32
(6) Key switch 33

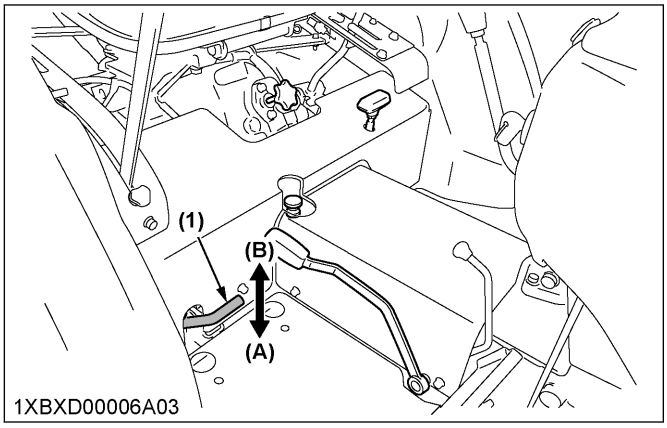
PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

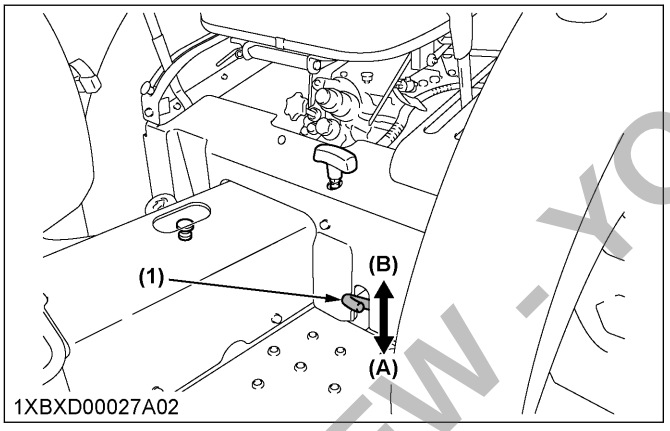
- **Be sure to release the differential lock before turning the tractor in field conditions.**

If one of the rear wheels should slip, depress the differential-lock-pedal. Both wheels will then turn together, which reduce slippage of the rear wheels.
You can maintain the differential lock only while the differential-lock-pedal is depressed.

[Manual transmission type]



[HST type]



(1) Differential lock pedal
(A) Press to engage
(B) Release to disengage

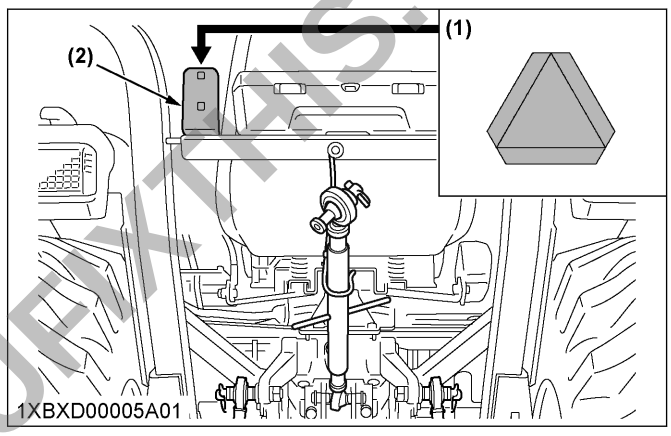
IMPORTANT :
- **When using the differential lock, always slow the engine down.**
- **To prevent damage to power train, do not engage the differential lock when one wheel is spinning and the other is completely stopped.**
- **If you cannot release the differential lock in the preceding manner, lightly depress the brake pedals alternately.**

2. Precautions for operating the tractor on a road

⚠ WARNING
To avoid personal injury or death:

- **To help assure that the straight-line-stops when driving at transport speeds, lock the brake pedals together. Uneven braking at road speeds could cause the tractor to roll-over.**
- **When traveling on road with 3-point hitch mounted implement attached, be sure to have sufficient front weight on the tractor to maintain steering ability.**

Be sure that the SMV emblem and the warning-indicator-lamps are clean and visible. If towed or rear-mounted equipment obstructs these safety devices, install the SMV emblem and the warning-indicator-lamp on equipment.
Consult your local KUBOTA Dealer for further details.



(1) SMV emblem *(2) Bracket*

3. Precautions for operating the tractor on slopes and rough terrain

⚠ WARNING
To avoid personal injury or death:

- **Always back the tractor up when the tractor is going up a steep slope. Driving forward could cause the tractor to tip over backward. Stay off hills and slopes too steep for safe operation of the tractor.**
- **Avoid changing gears when the tractor is climbing or descending a slope.**
- **If operating the tractor on a slope, never disengage the clutch lever or shift lever to the neutral position. Disengaging the clutch lever or shift lever to neutral could cause loss of control.**
- **Do not drive the tractor close to the edges of ditches or banks which may collapse under the weight of the tractor, especially when the ground is loose or wet.**

- Be sure that the wheel tread is adjusted to provide the maximum stability.
(See WHEEL ADJUSTMENT on page 82)

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

PREVIEW ONLY

You're viewing 11 of 139 pages

The full manual includes:

- All 139 pages, complete
- Searchable PDF (find any keyword)
- No watermarks
- Instant download
- Print-ready quality

GET FULL MANUAL NOW

Kubota L3301, L3901 Operator Manual

Scan or click anywhere
youfixthis.com

Click anywhere on this page to get the full manual